



chain nodes :

1 2 3 4 5 6 7 14 15 16 27 28 35 36 43 44 55 56 57

ring nodes :

8 9 10 11 12 13 17 18 19 20 21 22 23 24 25 26 29 30 31 32 33 34 37 38
39 40 41 42 45 46 47 48 49 50 51 52 53 54 58 59 60 61 62 63

chain bonds :

1-2 2-3 3-4 3-5 5-6 6-7 7-9 12-14 14-15 14-16 16-17 20-27 27-28 28-31 34-35
35-36 36-38 41-43 43-44 44-51 54-55 55-56 56-57 56-60

ring bonds :

8-9 8-13 9-10 10-11 11-12 12-13 17-18 17-22 18-19 19-20 20-21 21-22 21-23 22-26
23-24 24-25 25-26 29-30 29-34 30-31 31-32 32-33 33-34 37-38 37-42 38-39 39-40
40-41 41-42 45-46 45-50 46-47 47-48 48-49 49-50 49-51 50-54 51-52 52-53 53-54
58-59 58-63 59-60 60-61 61-62 62-63

exact/norm bonds :

3-4 3-5 7-9 14-15 14-16 16-17 20-27 27-28 28-31 34-35 35-36 36-38 41-43 43-44
44-51 54-55 55-56 56-57

exact bonds :

1-2 2-3 5-6 6-7 12-14 56-60

normalized bonds :

8-9 8-13 9-10 10-11 11-12 12-13 17-18 17-22 18-19 19-20 20-21 21-22 21-23 22-26
23-24 24-25 25-26 29-30 29-34 30-31 31-32 32-33 33-34 37-38 37-42 38-39 39-40
40-41 41-42 45-46 45-50 46-47 47-48 48-49 49-50 49-51 50-54 51-52 52-53 53-54
58-59 58-63 59-60 60-61 61-62 62-63

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:CLASS 15:CLASS 16:CLASS 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:CLASS 28:CLASS 29:Atom 30:Atom 31:Atom
32:Atom 33:Atom 34:Atom 35:CLASS 36:CLASS 37:Atom 38:Atom 39:Atom 40:Atom 41:Atom
42:Atom 43:CLASS 44:CLASS 45:Atom 46:Atom 47:Atom 48:Atom 49:Atom 50:Atom 51:Atom
52:Atom 53:Atom 54:Atom 55:CLASS 56:CLASS 57:CLASS 58:Atom 59:Atom 60:Atom 61:Atom
62:Atom 63:Atom

